

WHAT IS CLAIMED IS:

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1 A telecommunications system, comprising:
a private branch exchange (PBX) coupled to a local area network, said
PBX including a telephony feature access gateway (TFA);
a server coupled to said local area network, said server configured to
provide call processing via said LAN and configured to monitor bandwidth
usage of calls it has processed on said LAN;
one or more telephony devices operably coupled to said TFA gateway
for call processing;
one or more telephony devices operably coupled to said server for call
processing; and
means associated with said server for accounting for bandwidth
requirements of said one or more telephony devices operably coupled to said
TFA gateway on said LAN.

1 2. The telecommunications system according to claim 1, said server
2 being an H.323 compatible server.

1 3. The telecommunications system according to claim 1, said
2 accounting means including means associated with said server for aborting a
3 call being processed by said PBX.

1 4. The telecommunications system according to claim 1, said
2 accounting means including means for preventing a call being processed by
3 said server on said LAN.

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1 5. The telecommunications system according to claim 2, wherein said
2 one or more telephony devices coupled to said ToL server for call processing
3 are able to communicate with said H.323 server.

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1 6. A method for communicating in a system including a PBX and a
2 ToL server coupled to a LAN, said method comprising:
3 informing said ToL server of said call setup message;
4 accessing a database at said ToL server to determine if bandwidth is
5 available on said LAN for a call processed by said PBX; and
6 sending a message to abort said call if bandwidth is not available.

1 7. The method according to claim 6, further comprising receiving said
2 call setup message at said PBX; and wherein said message is sent to said
3 PBX.

1 8. The method according to claim 7, including informing said ToL
2 server when a call processed by said PBX is completed.

1 9. The method according to claim 8, including said ToL server
2 returning an acknowledge message to said PBX when said ToL server is
3 informed that said call is completed.

1 10. The method according to claim 8, including said ToL server
2 accounting for PBX user bandwidth usage when processing a ToL call.

1 11. The method according to claim 6 wherein said informing step is
2 performed by a client making said call processed by said PBX, and wherein
3 said message is sent to said client.

1 12. The method according to claim 11 wherein said ToL server is
2 H.323 compatible.

1 13. The method according to claim 7 wherein said ToL server is H.323
2 compatible.

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1 ~~14. A system for processing telephone calls, comprising:~~
2 ~~a private branch exchange (PBX) coupled to a local area network~~
3 ~~(LAN), said PBX having associated therewith a telephony feature access~~
4 ~~(TFA) gateway;~~
5 ~~a telephony over LAN (ToL) gatekeeper coupled to said LAN and~~
6 ~~configured to provide call control services for ToL phone calls on said LAN;~~
7 ~~and~~
8 ~~means associated with said gatekeeper for monitoring bandwidth~~
9 ~~usage of telephone calls processed via said TFA gateway.~~

1 15. The system according to claim 14, said monitoring means
2 including means for aborting a call processed via said TFA gateway if
3 bandwidth is unavailable.

1 ~~16. The system according to claim 14, said monitoring means~~
2 ~~including means for aborting a ToL call if said bandwidth is not available.~~

1 17. The system according to claim 14, including a TFA client that is
2 H.323 compliant but receives call functions from said TFA gateway and PBX.

1 18. The system according to claim 14, wherein said gatekeeper is
2 configured to abort a ToL call but not a TFA call if bandwidth exceeds a
3 predetermined usage.

1 ~~19. The system according to claim 14, wherein said TFA client is~~
2 ~~configured to provide a call request to said gatekeeper and, if said~~
3 ~~gatekeeper determines that bandwidth is available, provide a subsequent call~~
4 ~~request to said TFA gateway.~~

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- 1 20. The system according to claim 14, wherein said TFA client is
- 2 configured to submit a call request to said TFA gateway and inform said
- 3 gatekeeper of said call request.

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